

C675/B

CLAIMS

1. A mounting for a cycle wheel between the legs of a fork of a cycle frame in which the wheel has rolling bearings comprising inner and outer raceways at opposite ends of a hub, the outer raceways being de-mountably securable to the two legs of the fork, and wherein the inner raceways are removably secured to the hub and will normally remain attached to the hub if the wheel is de-mounted from the fork.
2. A cycle wheel mounting comprising a cycle fork and cycle wheel, the fork having first and second legs with distal ends for holding the cycle wheel therebetween, the cycle wheel including a hub having first and second wheel supports projecting axially outward from the ends thereof, each wheel support having means for attaching thereto an inner raceway which together with an outer raceway forms a rolling bearing, the distal ends of the fork legs each comprising releasable retaining means for retaining an outer raceway of a bearing, such that the wheel and rolling bearings can be secured to the fork, and can be removed as a single unit therefrom when required.
3. A cycle wheel mounting as claimed in claim 1 wherein the releasable retaining means comprises an openable annular clamp.
4. A cycle wheel mounting as claimed in claim 2 wherein the releasable mounting includes a quick release catch.
5. A cycle wheel mounting as claimed in claim 4 wherein the catch is configured to retain the outer raceways.

6. A cycle wheel mounting as claimed in any of claims 2 to 5 wherein the retaining means for retaining the outer raceways operate independently, such that each may be engaged and disengaged separately.
7. A mounting as claimed in any of claims 1 to 6 wherein each rolling bearing is a unitary component.
8. A mounting as claimed in any of claims 1 to 7 wherein the components of the rolling bearing ordinarily remain attached to the cycle wheel.
9. A mounting as claimed in any of claims 1 to 8 wherein each rolling bearing is located in line with the fork leg to which it is attached, whereby the external load on the rolling bearings is perpendicular to the central axis of the rolling bearing, thereby reducing mechanical stress on the rolling bearing.
10. A mounting as claimed in any of claims 1 to 9 wherein means for attaching each inner raceway to a wheel support allows the raceway to be de-mounted from its support.
11. A mounting as claimed in claim 10 wherein the means for attaching an inner raceway comprises a threaded screw passing through the inner raceway and threadably engaged to an internally threaded recess within the wheel support, so that in use it holds the raceway against the wheel support.
12. A mounting as claimed in claim 10 wherein the inner raceway of each rolling bearing includes a screw-threaded stub axially protruding from one end thereof and is retainable in use by being screwed into an internally threaded recess in the wheel support.
13. A mounting as claimed in any of claims 1 to 12 wherein the rolling bearings remain attached to the cycle wheel hub when the wheel is demounted from the fork, but after a wheel is so demounted they can be removed from the hub for replacement.

14. A mounting as claimed in any of claims 1 to 13 wherein the means for attaching the inner raceways of the bearings to a hub are independent of each other, allowing each rolling bearing to be independently de-mounted.

15. A mounting as claimed in any of claims 1 to 14 wherein each rolling bearing is a sealed bearing.

16. A mounting as claimed in any of claims 1 to 15 wherein the inner raceway is an integral part of the hub.

17. A hub for a cycle wheel for use in a mounting as claimed in any of claims 1 to 8 formed as a single unitary structure.

18. A hub as claimed in claim 17 having a flange at each end, with the first and second wheel supports projecting outwardly from the flanges.

19. A hub as claimed in claim 18 in which the flanges form part of the same unitary structure as the rest of the hub.

20. A hub as claimed in claim 18 or 19 when forming part of a cycle wheel which includes spokes and the latter extend from the flanges to the rim of the wheel.

21. A cycle wheel including a hub as claimed in any of claims 17 to 20.

22. A cycle fork forming part of a cycle frame or adapted to be attached to a cycle frame, having first and second legs with distal ends for holding a cycle wheel therebetween, the distal ends of the fork legs including or comprising releasable retaining means adapted to retain the outer raceways of rolling bearings of a cycle wheel, whereby the cycle wheel can be mounted thereto.

23. Adapter means attachable to the legs of a cycle fork to adapt the latter to comprise a cycle wheel mounting as claimed in any of claims 1 to 16.

24. A cycle including a frame and at least one fork between the legs of which a wheel is to be mounted, which includes cycle wheel mounting as claimed in any of claims 1 to 16.

25. A kit of parts comprising components of a cycle wheel mounting or a mounting for a cycle wheel as claimed in any of claims 1 to 16.